

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("US20070147731A1").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	OFF	2009/08/28 09:32
L2	2	US "20070147731" A1	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:33
L13	2962	(light near3 guide) same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:59
L14	0	345/4.ccls. 13	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:59
L15	124	"345"/\$.ccls. 13	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 09:59
L16	111935	(optic\$4) same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:05
L17	3584	"345"/\$.ccls. 16	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:05
L18	80975	(optic\$4) light same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:05
L19	3475	"345"/\$.ccls. 18	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:06
L20	1156	(optic\$4) light same (actuator or button or key) same deform\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:06
L21	39	"345"/\$.ccls. 20	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:06

L22	7989	touch\$1screen same (actuator or button or key)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:07
L23	832	"345"/\$.ccls. 22	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:07
L24	18	touch\$1screen same (actuator or button or key) same deform\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:08
L25	54	("3778553"   "4002855"   "4326193"   "4491692"   "4639881"   "4870458"   "4882582"   "4890832"   "4899137"   "5057677"   "5140632"   "5214429"   "5223677"   "5416610"   "5485176"   "5572573"   "5574446"   "5576981"   "5577848"   "5581243"   "5581670"   "5584054"   "5594471"   "5601489"   "5657072"   "5694150"   "5701141"   "5715524"   "5738450"   "5808920"   "5847698"   "5887995"   "5982355"   "6088023"   "6175679"   "6286064"   "D359273").PN. OR ("6492978"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 10:09
L26	22	("20020126103"   "4645870"   "4700176"   "5149986"   "5177327"   "5451723"   "5573077"   "5673041"   "5813280"   "5856820"   "5977867"   "5986224"   "6078315"   "6085576"   "6087599"   "6091406"   "6369806"   "6411287"   "6473075"   "6492978"   "6556150"   "6606081").PN. OR ("7463249").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 10:11
L27	831	touch\$1screen same (actuator or button or key) same (optic\$5 or light)	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:12
L28	76	"345"/\$.ccls. 27	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:13
L29	3	touch\$1screen same (actuator or button or key) same refract\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:16

L30	2846	light same (actuator or button or key) same refract\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:16
L31	10	345/173.ccls. 30	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:16
L32	128	(light near3 guide) same (actuator or button or key) same refract\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT	AND	ON	2009/08/28 10:19
L33	20	("3519116"   "3558213"   "3673327"   "4116531"   "4254333").PN. OR ("4480182").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 10:23
L34	9	"6369800"	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/28 14:16
S1	4	US-4254333-\$.DID. OR US-6028978-\$.DID. OR US-6154586-\$.DID. OR US-6642913-\$.DID.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 09:30
S2	45	("5858564"   "5914760"   "5965064"   "6195196"   "6288829"   "6327071"   "6338910"   "6344156").PN. OR ("6642913").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 09:31
S3	1	09/054639.app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 09:54
S4	1	10/583986.app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 10:03
S5	14	("3934248"   "4294517"   "4551717"   "4630895"   "4641026"   "5034602").PN. OR ("6369800").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 10:06
S6	251	"345".clas. and optical near4 button	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:44
S7	5	"345".clas. and optical near4 button with joystick	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:44
S8	59	"345".clas. and optical near2 sensor with joystick	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:45
S9	1	("5,694,153").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/20 13:47
S10	561	(345/166).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/10/20 13:49
S11	80	S10 and joystick	US-PGPUB; USPAT	ADJ	ON	2008/10/20 13:49

S12	99	("3643148"   "4180860"   "4464652"   "4533827"   "4533830"   "4538476"   "4550250"   "4573925"   "4578674"   "4682159"   "4688933"   "4698626"   "4736191"   "4782335"   "4786892"   "4823634"   "4917516"   "4949080"   "5045843"   "5142506"   "5166668"   "5186629"   "5204947"   "5298919"   "5313230"   "5389950"   "5510893"   "5532476"   "D281776"   "D291318"   "D302010"   "D315896").PN. OR ("5694153").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 13:52
S13	7	"09563088"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 13:53
S14	1	09/563088.app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 13:53
S15	6	barrowclough-philip.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 15:18
S16	9	wingett-gary.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/20 15:19
S17	6774	(345/156,157,161,166).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/10/21 08:48
S18	3625	S17 and light	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:48
S19	1854	S18 and (photodiode or detector or receiver)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:48
S20	4544	S17 and (optical or light)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S21	2195	S20 and (photodiode or detector or receiver)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S22	1106	S21 and (key or keypad)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S23	555	S22 and reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:49
S24	533	S23 and position	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:50
S25	1848	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor)	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:52
S26	40	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor) same reflection same position	US-PGPUB; USPAT	ADJ	ON	2008/10/21 08:53
S27	72	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor) same cursor control	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:30

S28	4	S17 and light same (light or photo or optical) near3 (diode or detector or receiver or sensor) same optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:35
S29	8	S17 and (light or photo or optical) near3 (diode or detector or receiver or sensor) same optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:36
S30	14	S17 and optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/21 09:37
S31	14	("3553470"   "4581603"   "4782327"   "4935728"   "5357094"   "5704037"   "5760764").PN. OR ("6034668"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:38
S32	1	S31 and optical grating'	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:38
S33	1	S31 and optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:38
S34	1	cursor control with optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:39
S35	1	cursor control same optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:39
S36	24	cursor control and optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:39
S37	4062	optical grating	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/21 09:40
S38	13	navigation button same cellphone	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:54
S39	73	"4" way with rocker switch	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:55
S40	127	optical same rocker switch	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:56
S41	534	"4" way near3 switch	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:57
S42	5	"4" way near3 switch with optical	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:57
S43	0	"4" way near3 switch same cellphone	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:58
S44	2	"4" way near3 switch same cellphone	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:59
S45	11	"4" way near3 switch near5 navigat\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/21 10:59
S46	422	optical grating near4 reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:00
S47	0	optical grating near4 (improv\$3 or better) near2 reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:00
S48	296	optical grating near2 reflect\$3	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:01
S49	0	optical grating near2 reflect\$3 near5 efficiency	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:02

S50	0	optical grating near2 reflect\$3 with efficiency	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:02
S51	94	optical grating with efficiency	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:02
S52	65	optical grating with (wave or light) guide	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:06
S53	65	optical grating with (wave or light) guide and optical grating	US-PGPUB; USPAT	ADJ	ON	2008/10/22 09:09
S54	1	("6,196,691").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/22 09:12

### EAST Search History (Interference)

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**8/ 28/ 2009 3:42:35 PM**

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